



OG™ PREMIUM FLUSH 4.5in. x 11.6 lb/ft HC-P110



**Pipe Body**

Nominal OD	4.500	inches
Nominal Weight	11.60	lb/ft
Wall Thickness	0.250	inches
Plain End Weight	11.35	lb/ft
Standard Drift	3.875	inches
Nominal ID	4.000	inches
Grade	HC-P110	
Min Yield	110,000	lbf/in <sup>2</sup>
Min Tensile	125,000	lbf/in <sup>2</sup>
Critical Section Area	3.338	in <sup>2</sup>
Pipe Body Yield Strength	367	kips
Min Internal Yield Pressure	10,690	psi
Collapse Pressure	8,830	psi

**Connection**

Connection OD	4.500	inches
Connection ID	3.963	inches
Make Up Loss	4.995	inches
Critical Section Area	2.003	in <sup>2</sup>
Internal / External Pressure Rating	100% of Pipe	
Internal Pressure	10,690	
External Pressure	8,830	
Tension Efficiency	60%	220 kips
Compression Efficiency	60%	220 kips
Uniaxial Bend Rating	67	° / 100 ft
Optimal Make Up Torque	3,200	ft-lbs 
Min	2,880	ft-lbs 
Max	3,520	ft-lbs

v1.0

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The performance properties in these data tables are calculated per API 5C3. Calculations are based on nominal wall thickness. Loads do not reflect a design safety factor for walls thinner than nominal or other defects.



### Torque Data Sheet - OG™ PREMIUM FLUSH



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Min Make Up Torque	2,880	ft-lbs	Nom Shoulder Torque	1,600	ft-lbs
Max Make Up Torque	3,520	ft-lbs			
Optimum Torque	3,200	ft-lbs			

